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# NOTICE OF ALLOWANCE AND FEE(S) DUE

09/22/2004

EXAMINER
NGUYEN, KHIEM D

MCGNN & GIBB, PLLC 8321 OLD COURTHOUSE ROAD SUITE 200 & VIENNA, VA 22:82-3817

RECEIVED

ART UNIT PAPER NUMBER

2823

SEP 28 2004

DATE MAILED: 09/22/2004

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/788,503 02/21/2001 Hideki Tanaka 00N033-US 6750

TITLE OF INVENTION: TAPE CARRIER TYPE SEMICONDUCTOR DEVICE, METHOD FOR MANUFACTURING THE SAME, AND FLEXIBLE SUBSTRATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	12/22/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

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8321 OLD COURT					I hereby certify that	this Fee(s) Transmittal is beir with sufficient postage for fi ail Stop ISSUE FEE address PTO (703) 746-4000, on the	ng deposited with the United
SUITE 200					States Postal Service addressed to the Ma	with sufficient postage for fi il Stop ISSUE FEE addres:	rst class mail in an envelope s above, or being facsimile
VIENNA, VA 221	82-3817				transmitted to the US	PTO (703) 746-4000, on the	date indicated below.
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09/788,503	02/21/2001		Hideki	Tanaka		00N033-US	6750
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APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PU	IBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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NGUYEN,	, KHIEM D	2823			257-668000		
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PTO/SB/47; Rev 03-02 (Number is required.	tion (or "Fee Address" Indica or more recent) attached. Use	tion form e of a Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATEN	T (print c	or type)		<del> </del>
PLEASE NOTE: Unless recordation as set forth in	s an assignee is identified be a 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will app Γa substitute	ear on the for filing	he patent. If an assig g an assignment.	nee is identified below, the	document has been filed for
(A) NAME OF ASSIGN	EE	(В	) RESIDENC	CE: (CIT	Y and STATE OR CO	OUNTRY)	
	assignee category or catego	ries (will not be pri	inted on the p	oatent) :	☐ Individual ☐ (	Corporation or other private g	roup entity Government
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The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Issu tublication Fee (if required) vords of the United States Pate	ie Fee and Publicat vill not be accepted ent and Trademark	tion Fee (if ar I from anyone Office.	ny) or to e other th	re-apply any previou nan the applicant; a re	sly paid issue fee to the applic gistered attorney or agent; or	ation identified above. the assignee or other party in
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This collection of informatic an application. Confidential submitting the completed at this form and/or suggestions Box 1450, Alexandria, Virg Alexandria, Virginia 22313-	on is required by 37 CFR 1.3 ity is governed by 35 U.S.C. oplication form to the USPT's for reducing this burden, shinia 22313-1450. DO NOT	11. The informatio 122 and 37 CFR O. Time will vary sould be sent to the SEND FEES OR C	n is required 1.14. This col depending up the Chief Infort COMPLETEI	to obtain llection i pon the i mation O D FORM	or retain a benefit by s estimated to take 12 individual case. Any officer, U.S. Patent an S TO THIS ADDRES	the public which is to file (at minutes to complete, includicomments on the amount of the d Trademark Office, U.S. Des SS. SEND TO: Commissioner	nd by the USPTO to process) ing gathering, preparing, and time you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 09/04) Approved for use through 04/30/2007.



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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/788,503	0	2/21/2001	Hideki Tanaka	00N033-US		
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8321 OLD COU SUITE 200	JRTHOUS	E ROAD		ART UNIT	PAPER NUMBER	
VIENNA, VA 2	2182-3817	,		2823		
				DATE MAILED: 09/22/2004	1	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 30 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 30 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/788,503	02/21/2001	02/21/2001 Hideki Tanaka		6750		
21254	7590 09/22/2004		EXAM	INER		
MCGINN & GI	•		NGUYEN, KHIEM D			
8321 OLD COUR SUITE 200	RTHOUSE ROAD		ART UNIT PAPER NUMBER			
VIENNA, VA 22	182-3817		2823			

DATE MAILED: 09/22/2004

# Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))	\$685.00
By other than a small entity	\$1,370.00
(h) Issue fee for issuing a design patent:	• •

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))	\$245.00
By other than a small entity.	\$490.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))	\$330.00
By other than a small entity	\$660.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/788,503	TANAKA, HIDEKI
Notice of Allowability	Examiner	Art Unit
	Khiem D Nguyen	2823
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not included inication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>07/02/04</u> .	ı	
2. A The allowed claim(s) is/are <u>1-11,13-15,17,18 and 21-35</u> .		
3. $\boxtimes$ The drawings filed on <u>21 February 2001</u> are accepted by t	he Examiner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) Including changes required by the Notice of Draftspers	son's Patent Drawing Reviev	v ( PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the	ne drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE	ERIAL must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 022101</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview St Paper No./ 98), 7. ☐ Examiner's	formal Patent Application (PTO-152)  Jummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance

Application/Control Number: 09/788,503

Art Unit: 2823

#### **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-11, 13-15, 17-18, and 21-35 are allowed.

#### Reasons For Allowance

The following is a statement of reasons for the indication of allowable subject matter: The prior art taken alone or in combination neither discloses nor makes obvious the instant process of claims as a whole. Specifically, the prior art of record, Muramatsu (JP 05-323355) discloses a tape carrier type semiconductor device comprising (See FIGS. 1-10 and related text): a flexible substrate on whose surface wiring is formed; and a driver circuit 2 which is mounted on the flexible substrate 8 and drives a device connected to the flexible substrate, wherein the flexible substrate includes: the slits 5 having no connector, for folding the flexible substrate and Kang (U.S. Patent 6,559,522) discloses a tape carrier type semiconductor device comprising (col. 3, line 7 to col. 4, line 16 and FIGS. 1-3): a flexible substrate on whose surface wiring is formed; and a driver circuit 50 which is mounted on the flexible substrate 10 and drives a device connected to the flexible substrate, wherein the flexible substrate includes: a first slit 16a, 16b for releasing stress (col. 3, line 53 to col. 4, line 16) but fails to teach or suggest the Applicant's steps of wherein the flexible substrate includes a first slit for releasing stress, the first slit having a connector for connecting parts of the first slit and separating the parts in a width-wise direction of the flexible substrate as recited in the currently amended independent claims.

Application/Control Number: 09/788,503

Art Unit: 2823

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khiem D Nguyen whose telephone number is (571) 272-1865. The examiner can normally be reached on Monday-Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (571) 272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

W. DAVID COLEMAN PRIMARY EXAMINER

K.N. September 18<sup>th</sup>, 2004

# Notice of References Cited Application/Control No. O9/788,503 Examiner Khiem D Nguyen Applicant(s)/Patent Under Reexamination TANAKA, HIDEKI Page 1 of 1

#### **U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-2001/0009299	07-2001	Saito, Hirokazu	257/684
*	В	US-6,727,577	04-2004	Kang, Sin-Gu	257/690
*	С	US-6,670,696	12-2003	Toyosawa et al.	257/667
*	D	US-5,362,547	11-1994	Yamazaki, Hideo	428/167
*	E	US-5,153,705	10-1992	Fukuta et al.	257/668
*	F	US-2004/0000707	01-2004	Roper et al.	257/686
*	G	US-2003/0081392	05-2003	Cady et al.	361/767
*	Н	US-2003/0030137	02-2003	Hashimoto, Nobuaki	257/690
*	ı	US-6,486,544	11-2002	Hashimoto, Nobuaki	257/686
*	J	US-5,822,191	10-1998	Tagusa et al.	361/751
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#### **FOREIGN PATENT DOCUMENTS**

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#### **NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

					Docket Number (Optional 00N033	Application Number Not yet assigned			
	INFO	RMATION DISCLOSURE			Applicant(s) Hideki Tanaka		Not ye	t assigned	<u>.                                    </u>
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